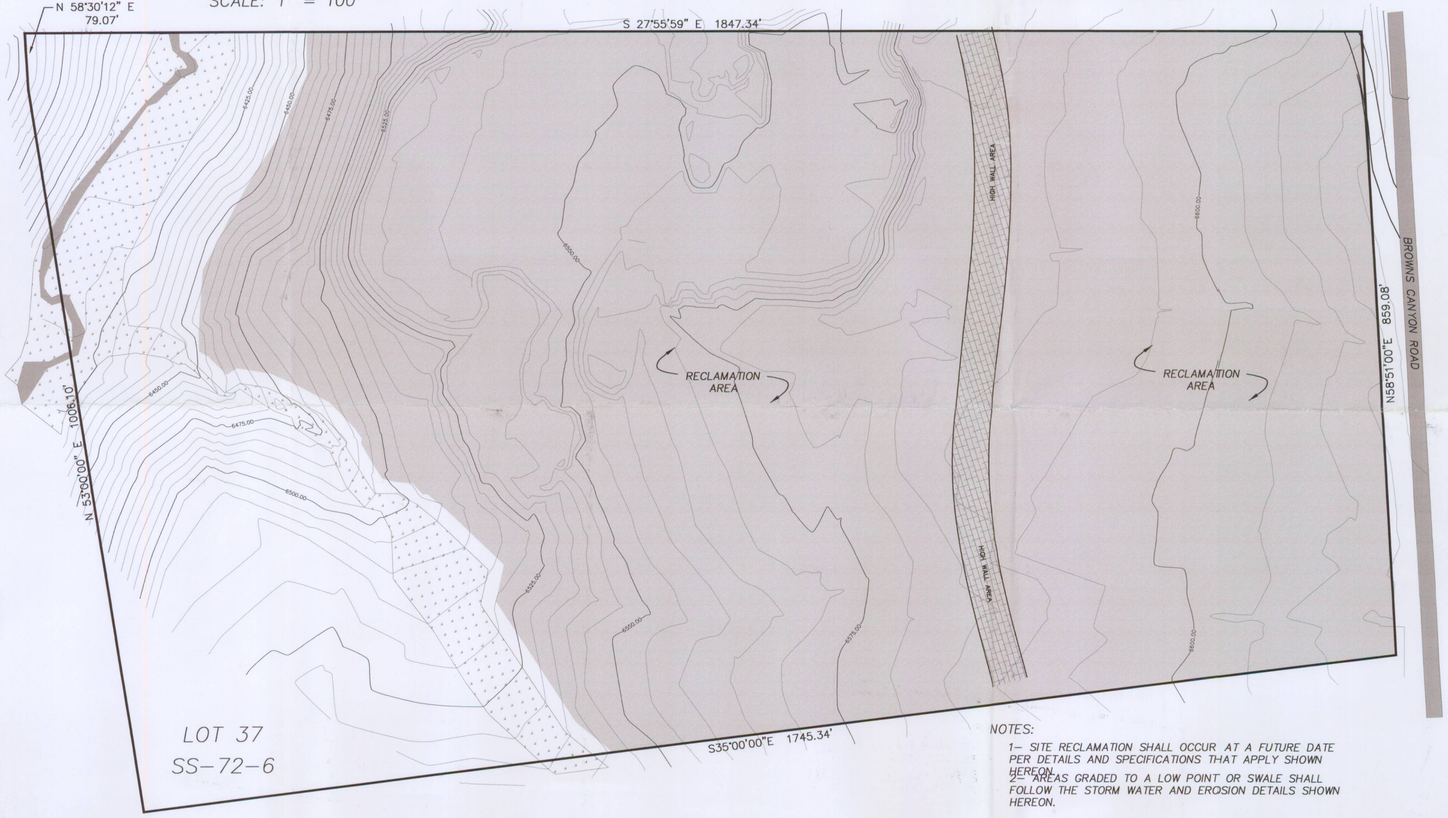
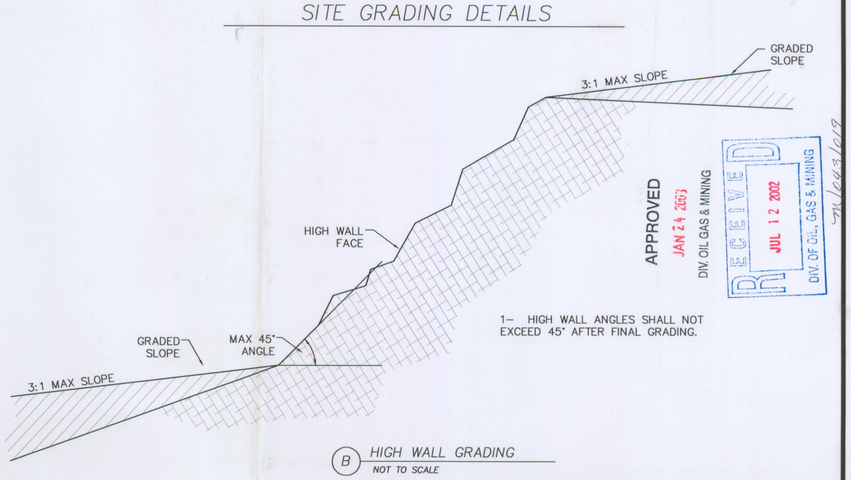
MOUNTAIN VALLEY STONE
SITE RECLAMATION MAP

SCALE: 1" = 100'



NOTES:
1- SITE RECLAMATION SHALL OCCUR AT A FUTURE DATE PER DETAILS AND SPECIFICATIONS THAT APPLY SHOWN HEREON.
2- AREAS GRADED TO A LOW POINT OR SWALE SHALL FOLLOW THE STORM WATER AND EROSION DETAILS SHOWN HEREON.

SITE GRADING DETAILS

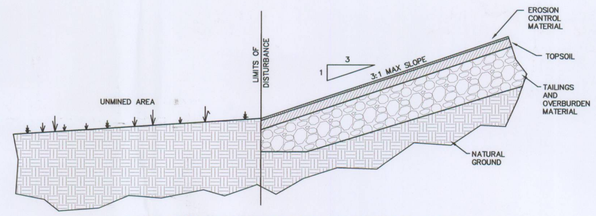


1- HIGH WALL ANGLES SHALL NOT EXCEED 45° AFTER FINAL GRADING.

APPROVED
JAN 24 2003
DIV. OIL GAS & MINING

RECEIVED
JUL 12 2002
DIV. OF OIL, GAS & MINING

(B) HIGH WALL GRADING
NOT TO SCALE



1- GRADE TAILING AND OVERBURDEN AREAS TO A MAXIMUM SLOPE OF 3:1. (3 FEET HORIZONTALLY TO 1 FOOT VERTICALLY)
2- COVER ALL GRADED AREAS WITH A MINIMUM OF 2 INCHES OF TOPSOIL
3- REVEGETATE ALL GRADED SLOPES. REVEGETATE AND COVER SLOPES GREATER THAN 4:1 (4 FEET HORIZONTALLY TO 1 FOOT VERTICALLY) WITH NA GREEN SR-75 EROSION CONTROL BLANKET PER MANUFACTURER'S SPECIFICATIONS.

(A) SLOPE GRADING
NOT TO SCALE

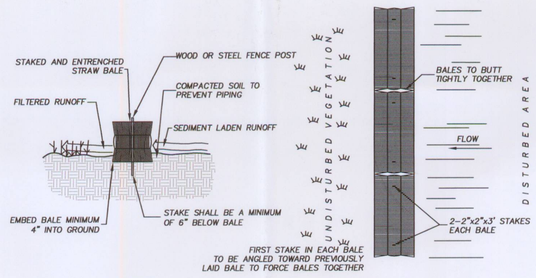
STORM WATER AND EROSION CONTROL DETAILS

STRAW BALE BARRIER

DEFINITION: TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED STRAW BALES

PURPOSE: TO FILTER STORM WATER RUNOFF FROM UPGRADIENT DISTURBED AREA AND TRAP SEDIMENT ON SITE.

APPLICATION:
* PERIMETER CONTROL: PLACE BARRIER AT DOWNGRADIENT LIMITS OF DISTURBANCE
* SEDIMENT BARRIER: PLACE BARRIER AT TOE OF SLOPE OR SOIL STOCKPILE
* PROTECTION OF EXISTING WATERWAYS: PLACE BARRIER AT TOP OF STREAM BANK



SECTION PLAN

LIMITATIONS:
* RECOMMENDED MAXIMUM DRAINAGE AREA OF 0.5 ACRE PER 100 FEET OF BARRIER
* RECOMMENDED MAXIMUM UPGRADIENT SLOPE LENGTH OF 150 FEET
* RECOMMENDED MAXIMUM UPHILL GRADE OF 2:1 (50%)

INSTALLATION:
* EXCAVATE A 4-INCH MINIMUM DEEP TRENCH ALONG CONTOUR LINE, ie. PARALLEL TO SLOPE, REMOVING ALL GRASS AND OTHER MATERIAL THAT MAY ALLOW UNDERFLOW.
* PLACE BALES IN TRENCH WITH ENDS TIGHTLY ABUTTING, FILL ANY GAPS BY WEDGING LOOSE STRAW INTO OPENINGS.
* ANCHOR EACH BALE WITH 2 STAKES DRIVE FLUSH WITH THE TOP OF THE BALE
* BACKFILL AROUND BALE AND COMPACT TO PREVENT PIPING, BACKFILL ON UPHILL SIDE TO BE BUILT UP 4-INCHES ABOVE ORIGINAL GROUND AT THE BARRIER

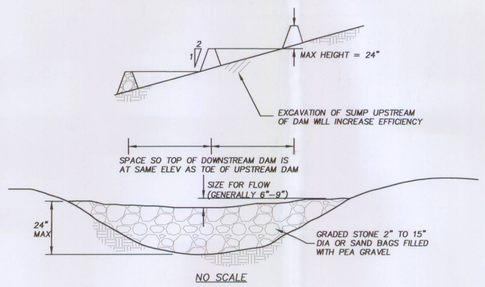
MAINTENANCE:
* INSPECT IMMEDIATELY AFTER ANY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
* LOOK FOR RUNOFF BYPASSING ENDS OF BARRIERS OR UNDERCUTTING BARRIERS.
* REPAIR OR REPLACE DAMAGED AREAS OF THE BARRIER AND REMOVE ACCUMULATED SEDIMENT.
* REALIGN BALES AS NECESSARY TO PROVIDE CONTINUOUS BARRIER AND FILL GAPS
* RECOMPACT SOIL AROUND BARRIER AS NECESSARY TO PREVENT PIPING

ROCK CHECK DAMS

DEFINITION: SMALL TEMPORATY DAM CONSTRUCTED ACROSS DRY DRAINAGE PATH (ie. NOT IN LIVE STREAMS).

PURPOSE: TO REDUCE EROSION OF DRAINAGE PATH BY REDUCING VELOCITY OF FLOW AND BY TRAPPING SEDIMENT ANID DEBRIS.

APPLICATION:
* TEMPORARY DRAINAGE PATHS
* PERMANENT DRAINAGE WAYS NOT YET STABILIZED
* EXISTING DRAINAGE PATHS RECEIVING INCREASED FLOWS DUE TO CONSTRUCTION



NO SCALE

LIMITATIONS:
* MAXIMUM RECOMMENDED DRAINAGE AREA IS 10 ACRES
* MAXIMUM RECOMMENDED HEIGHT IS 24"
* DO NOT USE IN RUNNING STREAM

INSTALLATION:
* PREPARE LOCATION OF DAM BY REMOVING ANY DEBRIS AND ROUGH GRADING ANY IRREGULARITIES IN CHANNEL BOTTOM
* PLACE ROCKS BY HAND OR WITH APPROPRIATE MACHINERY, DO NOT DUMP
* CONSTRUCT DAM WITH CENTER LOWER TO PASS DESIGN FLOW
* CONSTRUCT 50% SIDE SLOPES ON DAM

MAINTENANCE:
* INSPECT DAMS DAILY DURING PROLONGED RAINFALL, AFTER EACH MAJOR RAIN EVENT AND AT A MINIMUM OF ONCE MONTHLY.
* REMOVE ANY LARGE DEBRIS AND REPAIR ANY DAMAGE TO DAM, CHANNEL OR SIDESLOPES
* REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE HALF THE HEIGHT OF THE DAM

REVEGETATION SPECIFICATIONS

REVEGETATION REQUIRED ON ALL DISTURBED AREAS

ALL DISTURBED AREAS DUE TO CONSTRUCTION OF THE ROAD AND HOMESITES SHALL BE REVEGETATED BY REPLACING A MINIMUM OF 6" TOPSOIL ON THE DISTURBED AREA AND RESEEDED WITH A PERRENIAL SEED MIX AS SPECIFIED BELOW (OR AS OTHERWISE APPROVED BY SUMMIT COUNTY AND DOGM.)

ALL ROAD CUT AND FILL SLOPES WILL REQUIRE EITHER TEMPORARY OR PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED.

SEED MIX SPECIFICATIONS

SPECIES		Lbs./Acre
WYOMING BIG SAGEBRUSH	VNS	0.1
ROCKY MOUNTAIN PENSTEMON	BANDERA	1
ORCHARD GRASS	PAIUTE	2
YELLOW SWEETCLOVER	VNS	1
FORAGE KOCHIA	IMMIGRANT	1
SASKATOON SERVICEBERRY	VNS	1
ALFALFA	LADAK	1
INTERMEDIATE WHEATGRASS	OAHE	3
ANTELOPE BITTERBRUSH	VNS	1
SMALL BURNET	DELAR	1
THICKSPIKE WHEATGRASS	CRITANA	2
BLUEBUNCH WHEATGRASS	SECAR	2
BASIN WILDRYE	TRAILHEAD	1

TOTAL = 17.1 LBS/ACRE PLS (PURE LIVE SEED)

SEEDING SPECIFICATIONS

SCHEDULING
Pre-measure the area to be seeded before ordering seed from supplier.
Seeding Window: Complete all general roadside seeding within the appropriate seeding window.
If the seeding is not completed within the given window, postpone seeding until the following year.
Under certain conditions, an exception to this window may be obtained. The exception must be approved by the OWNER.
Seeding window is as follows:

Elevation	Seeding Window
Above 6000 ft	Sept. 1 to Nov 15

Topsoil:
Place topsoil just before seeding to eliminate competition from weeds.
Coordinate topsoil placement with the above seeding window.

SEED
Meet the Utah Seed Law: Utah Code - Title 4, Chapter 16.
Supply seed on a pure live seed (PLS) basis, according to the Summit County approved seed mix.
Obtain seed from lots that have been tested by a state certified seed testing laboratory.
Seed germination tests older than 18 months for grass seed, and 9 months for forb, shrub, or tree seed are not acceptable.
Do not use wet, moldy or otherwise damaged seed.
Seed Substitutions
Before requesting a seed substitution, contact the major seed brokers in the state to verify that the seed is unavailable.
Replacement seed shall be of equal or greater cost to the originally specified seed.

PREPARATION
Complete all final grading, trench settling, topsoil placement, surface preparation, and irrigation work before seeding begins.
Prepare General Seedbed (for all seeded areas).
Before any seed or sod work begins, properly prepare the topsoil surface and have it approved by the OWNER.
Do not work topsoil or seed when the soil is saturated or frozen.

SEEDING
1. Notify the OWNER 7 working days before seeding.
2. Apply seed at the rate indicated in the Seed Schedule shown in the plans.
3. Use the broadcast method of seeding under the following conditions:
   Slopes steeper than 1:3.
   Slopes 1:3 and flatter where the area to be seeded is inaccessible to drill.
   Where the area to be seeded is not large enough to justify using a drill.
   Where rocky surface conditions would damage a drill.
4. Broadcast the seed and rice hull carrier (if needed) evenly in one direction with a cyclone seeder or other approved mechanical seeder. Or, using a hydroseeder, apply seed, water and 500 kg of cellulose fiber mulch (tracer) per hectare. Do not seed during windy weather or when soil is saturated.
5. Incorporate the seed into the soil by one of three methods:
   Cat-tracking, running the dozer up and down the slope, creating continuous cleat tracks that run parallel with the contours.
   Hand raking the seed in 5 mm to 15 mm deep and along the contours of the slope.
   Slope chaining by pulling the chain along the contour until the seed is covered.

Summit Engineering Group, Inc.
55 WEST CENTER ST.
PO BOX 178
HEBER CITY, UT 84032
PHONE: 435.654.9229
FAX: 435.654.9231
www.summiteng.com

PRINT DATE: 07/02/2002
DRAWN BY: BMB
REVIEWED BY:
APPROVED BY:
FILE NAME:

SUMMIT COUNTY APPROVAL
SIGNATURE DATE

PROJECT NAME: MOUNTAIN VALLEY STONE
LOCATED IN SUMMIT COUNTY, UTAH

SHEET NAME: SITE RECLAMATION MAP

PROJECT NO. C02-016

SHEET NO. SP-2